

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1 - 3 (canceled)

Claim 4 (currently amended): A method for treating polluted water ~~treatment~~ comprising ~~electrocoagulation of~~ polluted water ~~carried out in reiterated cycles, each of which comprises the following steps:~~

(a) carrying out a cycle comprising the following steps:

- feeding to ~~the~~ an electrocoagulator a dose of said polluted water having a surface;
- establishing an initial sub-atmospheric pressure over said surface of said dose of said polluted water, said pressure ~~ranging between~~ having a minimum value of 0.01 ~~and 0.1~~ mPa;
- carrying out ~~said~~ an electrocoagulation process during which the pressure effective over said surface of said dose of said polluted water is raised gradually to ~~as high as 0.1~~ a value from atmospheric pressure to 2.5 mPa;
- withdrawing the dose of treated water;

- reducing the pressure to said initial level;
- ~~repeating said cycles at a frequency lying within~~
~~0.01 and 0.0001 Hz and~~

(b) repeating said cycle at least once at a pressure variation frequency lying within 0.01 and 0.0001 Hz.

Claim 5 (currently amended): A method of claim 4, wherein a separation procedure following said electrocoagulation process ~~is followed by~~ comprises a gravitational separation of said dose of said treated water at a pressure of 0.1-2.5 mPa.

Claim 6 (currently amended): A method of claim 4, wherein a separation procedure following said electrocoagulation process ~~is followed by~~ comprises a separation of said dose of said treated water in an IR-spectrum electromagnetic radiation having a specific heating power of from 0.1 to 10 kW/cu.m.